Table 1

Bayesian Mixed-Effects Multinomial Logistic Regression of Joint Engagement Outcomes with HRV Trend Synchrony (Low-Frequency Coherence) and Covariates

Predictor	β	SE	OR	95% CI[a]	$\widehat{R}$[b]	*PP*[c]
Outcome: *Supported Joint Engagement*						
Intercept	–.56	1.13	.57	[–2.85, 1.61]	1.00	.69
Diagnostic Status	–.87	2.06	.42	[–4.82, 3.31]	1.00	.67
Gender	**3.07**	1.47	21.56	[.18, 6.09]	1.00	.98
SRS-2 Severity: Mild	1.03	2.93	2.81	[–4.50, 6.92]	1.00	.64
SRS-2 Severity: Moderate	.18	2.39	1.20	[–4.58, 5.00]	1.00	.53
SRS-2 Severity: Severe	–.27	2.91	.77	[–6.07, 5.42]	1.00	.54
Dyadic Proximity	**–3.69**	.19	.03	[–4.06, –3.32]	1.00	1.00
LF HRV Coherence	**.34**	.16	1.40	[.02, .65]	1.00	.64
Outcome: *Coordinated Joint Engagement*						
Intercept	.22	.67	1.25	[–1.08, 1.58]	1.00	.64
Diagnostic Status	**–5.70**	1.56	.00	[–8.65, –2.56]	1.00	1.00
Gender	**3.01**	.98	20.29	[1.00, 4.93]	1.00	1.00
SRS-2 Severity: Mild	2.73	2.22	15.40	[–1.61, 7.08]	1.00	.89
SRS-2 Severity: Moderate	**–5.50**	3.03	.00	[–12.55, –.22]	1.00	.98
SRS-2 Severity: Severe	–1.75	.29	.17	[–3.36, 5.45]	1.00	.70
Dyadic Proximity	**–4.20**	.26	.02	[–4.71, –3.70]	1.00	1.00
LF HRV Coherence	.15	.22	1.16	[–.29, .57]	1.00	.74

Note. OR = odds ratio; CI = credible interval; *PP* = posterior probability. Bolded values indicate significant effects.

[a] The 95% CI indicates evidence for an effect (i.e., if the CI does not include 0).

[b] $\widehat{R}$ is a diagnostic statistic in Bayesian analysis that assesses Markov Chain Monte Carlo convergence by comparing the variance between and within multiple chains; values close to 1 indicate convergence.

[b] The *PP* indicates the probability that the coefficient is in the observed direction.

Table 2

Bayesian Mixed-Effects Multinomial Logistic Regression of Joint Engagement Outcomes with HRV Concurrent Synchrony (High-Frequency Coherence) and Covariates

Predictor	β	SE	OR	95% CI[a]	$\widehat{R}$[b]	*PP*[c]
Outcome: *Supported Joint Engagement*						
Intercept	–.49	1.06	.61	[–2.68, 1.51]	1.00	.68
Diagnostic Status	–.93	2.12	.39	[–5.01, 3.38]	1.00	.68
Gender	**3.07**	1.46	21.46	[.25, 6.00]	1.00	.98
SRS-2 Severity: Mild	1.10	3.02	3.02	[–5.06, 6.88]	1.00	.65
SRS-2 Severity: Moderate	.17	2.48	1.19	[–4.74, 5.00]	1.00	.54
SRS-2 Severity: Severe	–.22	3.00	.80	[–6.08, 5.63]	1.00	.53
Dyadic Proximity	**–3.66**	.19	.03	[–4.04, –3.30]	1.00	1.00
HF HRV Coherence	.18	.15	1.20	[–.11, .47]	1.00	.88
Outcome: *Coordinated Joint Engagement*						
Intercept	.22	.66	1.23	[–1.08, 1.52]	1.00	.63
Diagnostic Status	**–5.70**	1.56	.00	[–8.65, –2.56]	1.00	1.00
Gender	**3.01**	.98	20.29	[1.00, 4.93]	1.00	1.00
SRS-2 Severity: Mild	2.73	2.22	15.40	[–1.61, 7.08]	1.00	.88
SRS-2 Severity: Moderate	**–5.50**	3.03	.00	[–12.55, –.22]	1.00	.98
SRS-2 Severity: Severe	–1.75	.29	.17	[–3.36, 5.45]	1.00	.69
Dyadic Proximity	**–4.20**	.26	.02	[–4.71, –3.70]	1.00	1.00
HF HRV Coherence	.30	.19	1.36	[–.08, .69]	1.00	.94

Note. OR = odds ratio; CI = credible interval; *PP* = posterior probability. Bolded values indicate significant effects.

[a] The 95% CI indicates evidence for an effect (i.e., if the CI does not include 0).

[b] $\widehat{R}$ is a diagnostic statistic in Bayesian analysis that assesses Markov Chain Monte Carlo convergence by comparing the variance between and within multiple chains; values close to 1 indicate convergence.

[b] The *PP* indicates the probability that the coefficient is in the observed direction.